What is claimed is:

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- 1. In an electronic device having a processor, a computer readable memory, and at least one hardware resource coupled to each other, a method of OPERATING the hardware resources, the method comprising the steps of:
- a) locating a first address in the computer readable memory, the first address containing operating information associated with a first hardware resource;
- b) transmitting operating information associated with the first address to the first hardware resource;
- c) reading a pointer associated with the first address that locates a subsequent address for a subsequent hardware resource; and
- d) repeating steps a) through c) for a quantity of pointers respectively associated with multiple hardware resources.
- 2. The electronic device recited in Claim 1 wherein the method further comprises the step of:
- e) returning to the first pointer when all of the quantity of pointers has been exhausted in a list stored in memory.
- 3. The electronic device recited in Claim 1 wherein the method further comprises the step of:
- e) repeating steps a) through c) for each of multiple sets of operating information associated with multiple uses of the hardware resource.
- 4. The electronic device recited in Claim 3 wherein the multiple sets of operating information are utilized within a system cycle.
- 5. The electronic device recited in Claim 1 wherein the method further comprises the step of:

- e) repeating steps a) through d) for a plurality of entries of operating information for the hardware resource, wherein each of the entries is respectively associated with a reuse of the hardware resource for a different application at a different point in time.
- 5 6. The electronic device recited in Claim 1 wherein the information for operating the first hardware resource includes semi-static hardware control parameters.
 - 7. The electronic device recited in Claim 6 wherein the semi-static hardware control parameters include flags, parameters, or states for the first hardware resource.
 - 8. The electronic device recited in Claim 1 wherein the information for operating the first hardware resource includes dynamic hardware control parameters.
 - 10. The electronic device recited in Claim 8 wherein the dynamic hardware parameters are controlled by dedicated hardware resources.
 - 11. The electronic device recited in Claim 7 wherein the hardware resources include at least one tracking finger.
- 20 12. The electronic device recited in Claim 1 wherein the hardware resources include at least one searcher element.
 - 13. The electronic device recited in Claim 1 wherein the hardware resources include at least one downlink transmitter element.
 - 14. The electronic device recited in Claim 1 wherein the hardware resources include at least one matched filter element.

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- 15. The electronic device recited in Claim 15 wherein the method further comprises the step of:
- e) executing a pointer from a primary list of pointers that transfers control to a secondary list with operating information associated with the hardware resource.
- 16. The electronic device recited in Claim 1 wherein only the hardware resources in the secondary list that are grouped together for a specific category are enabled via the pointer from the primary list.
- 17. The electronic device recited in Claim 16 wherein the secondary list has a pointer at the end of the operating information grouped together for the specific purpose, the pointer for the secondary list returning control to the primary list.
- 18. The electronic device recited in Claim 16 wherein the primary list has a plurality of pointers that point to at least one other list that tracks an identification of a user of hardware resources.
- 19. In an electronic device having a processor, a computer readable memory, and at least one hardware resource all coupled to each other, a method of generating a scheduler for managing the hardware resource, the method comprising the steps of:
- a) receiving at the electronic device, a quantity of hardware resources available in the electronic device;
 - b) receiving operation information for the hardware resource; and
- c) generating a list in memory for linking requests for using the hardware resource.
 - 20. The electronic device recited in Claim 19 wherein the method further comprises the steps of:

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- d) receiving a request from a requester for using the hardware resource in the electronic device; and
- e) associating operating information for the given hardware resource with the requester in an entry of the list.
- 21. The electronic device recited in Claim 19 wherein the hardware resources managed by the list have the same function.
 - 22. The electronic device recited in Claim 19 further comprising the step of:
- d) generating a memory address that links the operation information of the hardware resources to another hardware resource.
 - 23. The electronic device recited in Claim 20 further comprising the step of:
- f) generating a memory address that links a last hardware resource to a first hardware resource.
 - 24. The electronic device recited in Claim 20 further comprising the step of:
- f) generating a memory address that links the hardware resources for each of multiple reuses within the given time span.
 - 25. The electronic device recited in Claim 20 further comprising the step of:f) generating a second list that provides a pointer to operation information of hardware
- 25 26. A system for communicating information between a host communication device and an external communication device, the system comprising:

resources that have a common category.

receiving a request for using a hardware resource in the host communication device for communicating to the external communication device;

modifying a scheduler for the hardware resources in computer memory of the host communication device to satisfy the request; and

operating the hardware resources in the host communication device according to the modified scheduler.

- 27. In an electronic device having a processor, a means for storing a list of information, and at least one hardware resource coupled to each other, a method of operating the hardware resources, the method comprising the steps of:
- a) locating a first address in the means for storing a list of information, the first address containing operating information associated with a first hardware resource;
- b) transmitting operating information associated with the first address to the first hardware resource;
- c) reading a pointer associated with the first address that locates a subsequent address for a subsequent hardware resource; and
- d) repeating steps a) through c) for a quantity of pointers respectively associated with multiple hardware resources.